

SICP-2 Solutions

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Solutions taken from <http://community.schemewiki.org/?sicp-solutions>

Program used: gsi - Gambit Scheme Interpreter and Compiler

Exercise1.1

SOURCE CODE

```
(display 10) (newline)

(display (+ 5 3 4)) (newline)

(display (- 9 1)) (newline)

(display (/ 6 2)) (newline)

(display (+ (* 2 4) (- 4 6))) (newline)

(define a 3)
(define b (+ a 1))

(display (+ a b (* a b))) (newline)

(display (= a b)) (newline)

(display(if (and (> b a) (< b (* a b)))
            b
            a)) (newline)

(display(+ 2 (if (> b a) b a))) (newline)

(display(* (cond ((> a b) a)
                ((< a b) b)
                (else -1))
          (+ a 1))) (newline)
```

OUTPUT

```
-1
10
12
8
```

3
6
19
#f
4
6
16

Exercise1.2

SOURCE CODE

```
(display(/ (+ 5 4 (- 2 (- 3 (+ 6 (/ 4 5))  
                      (* 3 (- 6 2) (- 2 7)))))
```

OUTPUT

-37/150